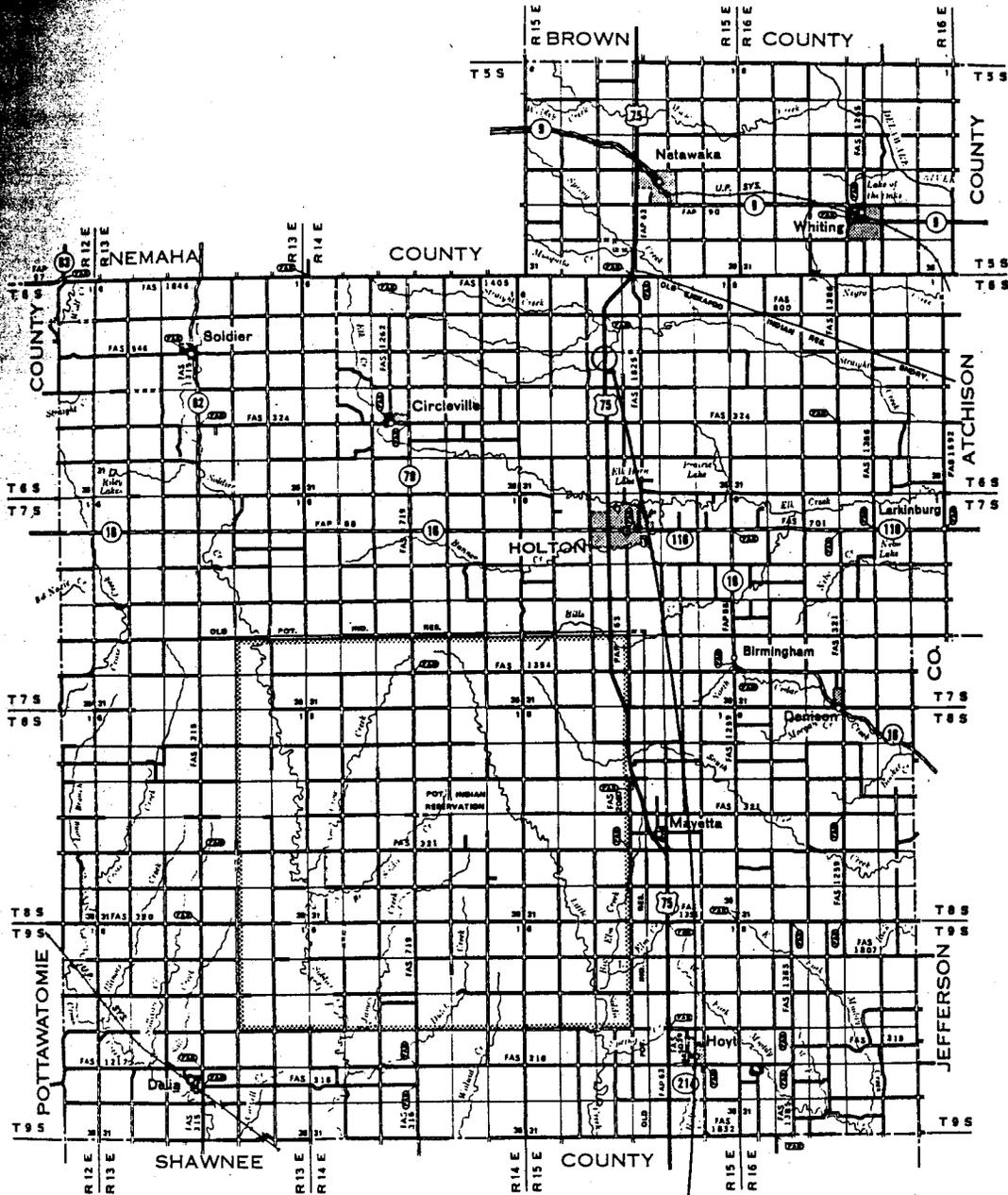2AEØ

Kansas Department of Transportation

BRIDGE FOUNDATION GEOLOGY REPORT

075-043 K-3257-01
Br. No. 23.05
Jackson County

KANSAS DEPARTMENT OF TRANSPORTATION

COUNTY Jackson   PROJECT NO. 75-43-K-3257-01   BRIDGE NO. 23.05

DESCRIPTION U.S. 75 over Straight Creek   STA. 358+20

GEOLOGIST D.L. Thompson   VERTICAL SCALE 1"= 5'   DATE 3-29-91

BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS Core Drill # 1 Sta. 358+60, 21 Rt	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE	
								BLOWS Depth	ELEV.
				0°	1032.7				
					1030	Clay, silty, dark brown to gray brown			
				8⁴	1025 1024.3		1.31	7°	1025.7
	Soil Mantle				1020		0.49	12°	1020.7
					1015				
				21⁶	1011.1		2.31	21⁶	1011'
					1010	Sand, Fine to medium			
					1005				
				30⁸			0.69	30°	1002.7
				32³	1000	Sand, Fine to medium, much organic material		Std. Pen#1 Blows 7	1001.9 1000.4
	French Creek Mbr			35°	997.7	Shale, gray, clayey, weathered		Std. Pen #2 Blows 43	997.7
				36⁵					996.2

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BIT TYPE & NO.	GEOLOGIC NAME	GEOLOGIC COLUMN	GROUNDWATER ELEVATION	DEPTH	ELEVATION	GEOLOGIC DESCRIPTION AND REMARKS Core Drill #1 Sta. 358+60, 21 Rt	UNCONFINED COMPRESSION	STANDARD PENETRATION OR CASING DRIVE BLOWS	ELEV.
	Soil Mantle			35°	997.7	Sand, fine to medium, high in organic material			
	French Creek Member	1			995	Shale, light gray, clayey			
		2		41⁵ 42°	991.2 990.2 990	Limestone, light gray, impure / Shale, olive, sandy			
		3			985				
	Jim Creek Mbr.			51⁷ TD	981.6 981.2	Limestone, light gray, hard		Depth 51' 51⁵	
	Friedrich Mbr.				980				

Core Descriptions

Core # 1 36⁷-41⁷ Cored 5° Recov. 5°
36⁷-41⁵ Shale, light gray, slightly weathered
41⁵-41⁷ Limestone, light gray, impure
Sample # 1 38°-38⁸
RQD = 92%

Core # 2 41⁷-46⁷ Cored 5° Recov. 5°
41⁷-42° Limestone, light gray, impure
42°-46⁷ Shale, olive, clayey
Sample # 2 45⁵-46⁷   RQD = 72%

Core # 3 46⁷-51⁷ Cored 5° Recov. 5°
46⁷-51' Shale, olive, sandy, firm
51'-51⁵ Limestone, hard
51⁵-51⁷ Shale, olive
Core had to be beaten out of barrel.
RQD = NA